

# Smart Kitchen & Robotic Cooking Platforms Market Forecasts to 2032 – Global Analysis By Product Type (Smart Cooktops, Smart Ovens, Robotic Chefs / Cooking Arms and Smart Kitchen Hubs & Controllers), Connectivity, Technology, Application and By Geography

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## Abstracts

According to Statistics MRC, the Global Smart Kitchen & Robotic Cooking Platforms Market is accounted for \$4.28 billion in 2025 and is expected to reach \$10.06 billion by 2032 growing at a CAGR of 13.0% during the forecast period. Smart Kitchen and Robotic Cooking Platforms are redefining how food is prepared by combining AI, automation, and connected devices. They offer precise cooking control, uniform results, and tailored nutrition management, enhancing productivity in both households and professional kitchens. Robots can handle tasks such as chopping, stirring, and plating, reducing manual labor while improving accuracy. Rising consumer demand for convenience, healthier meals, and efficient cooking is fueling their adoption. Moreover, these platforms provide analytical insights, recipe customization, and smooth compatibility with smart home systems. As a result, they play a crucial role in the growth of food technology, delivering innovative, time-saving, and data-driven culinary solutions.

According to the International Energy Agency (IEA), data shows that by 2030, connected devices worldwide could waste 300 TWh annually in network standby energy, equivalent to the UK's current electricity consumption. This highlights the massive scale of connected appliances, reinforcing the need for energy-efficient smart kitchen ecosystems.

## **Market Dynamics:**

### **Driver:**

Increasing demand for convenience and time-saving solutions

With lifestyles becoming increasingly hectic, consumers are turning to smart kitchen and robotic cooking platforms to streamline meal preparation. These technologies automate routine cooking tasks like chopping, stirring, and cooking, minimizing manual effort while saving time. Professionals, urban households, and families adopt these systems to maintain nutritious meals without disrupting busy schedules. Connected IoT functionalities enable users to monitor and control cooking processes remotely, further enhancing convenience. The market is witnessing heightened interest as consumers prioritize efficiency, speed, and ease in meal preparation. Consequently, manufacturers are motivated to innovate, develop advanced solutions, and cater to the growing demand for convenient and automated kitchen technologies.

### **Restraint:**

High initial investment and cost of adoption

The adoption of smart kitchen and robotic cooking platforms is restrained by their substantial initial costs. Incorporating AI, automation, and IoT functionality makes these devices expensive, often limiting affordability for individual households and small-scale businesses. Beyond the upfront purchase, ongoing expenses such as maintenance, software updates, and occasional repairs further increase the total cost of ownership. Price-sensitive consumers may hesitate to invest despite the convenience, efficiency, and health benefits offered by these technologies. Consequently, the financial barrier remains a key limitation, slowing widespread adoption and preventing many potential users from accessing advanced cooking solutions and fully leveraging the benefits of smart and robotic kitchen innovations.

### **Opportunity:**

Growing demand for customization and personalized cooking

Rising consumer demand for personalized diets and culinary experiences creates significant growth potential for smart kitchen and robotic cooking platforms. These systems leverage AI to provide customized recipe suggestions, meal planning, and

precise portion control tailored to individual nutritional goals, allergies, or taste preferences. In professional kitchens, such technologies enable consistent quality, adaptive menus, and data-driven operational insights, enhancing customer satisfaction. The shift toward wellness-oriented and individualized eating habits drives innovation and increases adoption rates. By delivering precise, personalized cooking experiences, smart kitchen solutions can appeal to a wider audience, create additional revenue opportunities, and establish themselves as essential tools for both home users and commercial culinary operations.

#### Threat:

##### Cyber security and data privacy concerns

The reliance of smart kitchen and robotic cooking platforms on connected networks and cloud services exposes them to significant cybersecurity and data privacy risks. Unauthorized access could allow hackers to exploit personal information, monitor usage habits, or even manipulate appliances, creating safety concerns. Consumer apprehension about these vulnerabilities may limit adoption despite technological benefits. Implementing strong security measures, encryption, and adhering to data protection regulations is both complex and expensive for manufacturers. A single breach could severely harm brand credibility and slow market expansion. Consequently, concerns over cybersecurity and privacy pose substantial threats, potentially reducing consumer trust and constraining the growth of smart kitchen and robotic cooking solutions globally.

#### Covid-19 Impact:

COVID-19 had a notable impact on the Smart Kitchen and Robotic Cooking Platforms market, primarily by encouraging consumers to adopt home-based, automated cooking solutions. Lockdowns, social distancing measures, and limited restaurant access prompted increased interest in technologies that enable contactless, convenient, and efficient meal preparation. People spending more time at home sought appliances and robotic platforms to minimize manual cooking effort and maintain healthier diets. However, supply chain interruptions and production delays temporarily affected product availability. Despite these challenges, the pandemic accelerated consumer awareness and adoption of smart kitchen technologies, emphasizing hygiene, convenience, and efficiency, and ultimately influencing long-term demand and innovation trends in the market.

The smart ovens segment is expected to be the largest during the forecast period

The smart ovens segment is expected to account for the largest market share during the forecast period due to their multifunctionality, user-friendly design, and strong consumer preference for automated cooking. These ovens integrate precise temperature settings, multiple cooking programs, and connectivity with apps or smart home ecosystems, enhancing convenience and efficiency in preparing meals. Their versatility allows them to perform baking, roasting, grilling, and other cooking functions, appealing to both domestic and commercial users. Ongoing technological improvements, combined with rising awareness of smart kitchen benefits, reinforce smart ovens as the dominant segment. Their widespread adoption highlights their pivotal role in shaping trends within the smart cooking industry.

The residential kitchens segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the residential kitchens segment is predicted to witness the highest growth rate, driven by the increasing penetration of smart home technologies and consumer demand for automated, convenient cooking solutions. Households are increasingly adopting smart ovens, cooktops, and robotic platforms to save time, maintain healthy diets, and simplify meal preparation. Connectivity with IoT systems and mobile applications enhances personalization, remote operation, and overall user experience. Growing interest in efficiency, hygiene, and modern kitchen innovations ensures that residential applications of smart cooking technologies will expand rapidly, establishing this segment as the fastest-growing sector in the evolving smart kitchen market.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, fueled by high awareness, technological innovation, and widespread smart home integration. Strong consumer spending capacity, advanced infrastructure, and rising demand for efficient, automated, and health-conscious cooking solutions drive adoption in the region. Smart ovens, cooktops, and robotic cooking systems offering AI functionalities, remote control, and personalized meal options are increasingly popular. Ongoing innovation by leading companies, early adoption patterns, and growing urbanization support the region's leadership. With a technologically adept population and mature market, North America remains the primary driver of global growth in the smart kitchen and robotic cooking segment.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to rapid urban growth, expanding disposable income, and rising consumer adoption of automated kitchen technologies. Increasing focus on health, convenience, and efficient meal preparation is prompting households and small commercial kitchens to invest in smart ovens, cooktops, and robotic cooking systems. Widespread use of IoT-enabled devices, smart phone accessibility and government support for smart home infrastructure further fuel expansion. Key market players are increasing their presence in emerging countries like China, India, and Japan, making Asia-Pacific the fastest-growing region in the global smart kitchen and robotic cooking market.

Key players in the market

Some of the key players in Smart Kitchen & Robotic Cooking Platforms Market include Moley Robotics, Posha, upliance.ai, Circus Group, Nala Robotics, Whirlpool Corporation, LG Electronics, Electrolux AB, Samsung Electronics Co., Ltd., Haier Group, Panasonic Corporation, Miso Robotics, Inc., Karakuri Studios Ltd., Chef Robotics and Mukunda Foods.

### **Key Developments:**

In October 2025, LG Electronics, SK Enmove (SKEN), and Green Revolution Cooling (GRC) are collaborating on immersion cooling solutions for AI data centers. The three companies have signed a memorandum of understanding (MoU), which will see them conduct joint marketing and deliver proof of concept (PoC) demonstrations for integrated solutions and business models in liquid immersion cooling.

In May 2025, Samsung Electronics announced that it has signed an agreement to acquire all shares of FI?ktGroup, a leading global HVAC solutions provider, for €1.5 billion from European investment firm Triton. With the global applied HVAC market experiencing rapid growth, the acquisition reinforces Samsung's commitment to expanding and strengthening its HVAC business.

In December 2024, Whirlpool of India Limited (Whirlpool) and PG Electroplast Limited (PGEL) have announced the signing of a definitive agreement, for contract manufacturing of select models of Whirlpool branded semi-automatic washing machines. Under the arrangement, PGEL will manufacture some of the SKUs for

Whirlpool at its factory at Roorkee. PGEL is already an existing supplier of Whirlpool branded air conditioners and both companies will continue to evaluate the potential expansion opportunities.

#### Product Types Covered:

Smart Cooktops

Smart Ovens

Robotic Chefs / Cooking Arms

Smart Kitchen Hubs & Controllers

#### Connectivities Covered:

Standalone Smart Appliances

Integrated Smart Ecosystems

#### Technologies Covered:

IoT & Sensor-Based Cooking

AI & Machine Learning Recipe Personalization

Robotic Arms & Automation Hardware

Cloud-Connected Platforms & Voice Assistant Integration

#### Applications Covered:

Residential Kitchens

Commercial Kitchens

## Regions Covered:

### North America

US

Canada

Mexico

### Europe

Germany

UK

Italy

France

Spain

Rest of Europe

### Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

## Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

### **What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free

customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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